

Patent Abstracts of Japan

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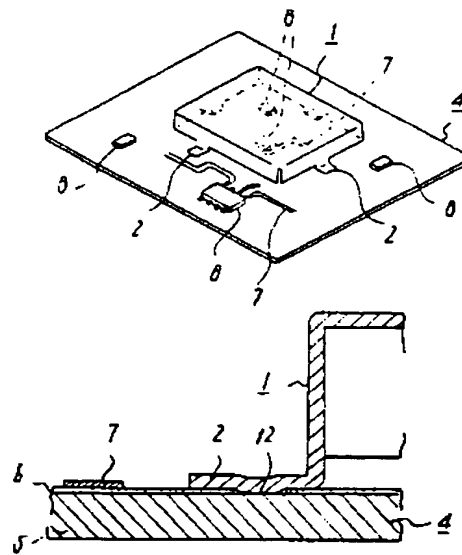
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APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : TAKAGI ATSUSHI;

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TITLE : COUPLING OF SHIELDING CASE



ABSTRACT : PURPOSE: To eliminate a need for an operation to make a hole and a soldering operation and to simplify a process by a method wherein a coupling part of a shielding case is coupled with a resistance-welding part of a printed-circuit board by using a resistance-welding operation.

CONSTITUTION: One part or more parts at side walls around a shielding case 1 which has been formed to be a box shape by bending a metal sheet are extended and bent nearly perpendicularly; while coupling parts 2 are formed. An insulating layer 6 is formed on the surface of a metal base layer 5; in addition, a conductor pattern 7 is formed to form a printed-circuit board 4. Parts of the circuit board 4 which correspond to the coupling parts 2 are used as resistance-welding parts 12 after removing the insulating layer 6; the parts are resistance-welded to the coupling parts 2. By this setup, the case 1 and the metal base layer 5 of the circuit board 4 are at an electrically nearly equal potential; whereby it is made possible to simply realize a shielding operation which can completely shut off the interference caused by an internal and an external noises.

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